

97. BEYBIN, I.G.

"The Epiphytotic of *Tilletia secalis* in Southern Altai," Vestnik Zashchity
Rastenii, no. 1-2, 1940, pp. 230-234. 421 P942

So: SIRA S1-90-53, 15 Dec. 1953

FA149T10

USSR/Biology - Plants
Fungus Diseases

Jul/Aug 49

"Fungus Diseases of Seedlings and Cuttings," I. G. Beylin, 13 pp

"Mikrobiologiya" Vol XVIII, No 4
Plan for USSR reforestation requires growing of 4,161,000 seedlings in 1950 (26,685,000,000 seedlings from 1951 to 1955). Describes fungus diseases of coniferous and leafy trees, natural immunity of plants and aggressiveness of parasites, comprehensive methods for preventing infection, and chemical and biological methods for immunizing

149T10

USSR/Biology - Plants (Contd)

Jul/Aug 49

seedlings. Stresses necessity for comprehensive study of diseases which are indigenous to steppe and forest-steppe regions. Includes bibliography of 36 books.

BEYLIN, I. G.

149T10

99. BEYLIN, I. G.

"Effect of Environmental Factors on Plant Constitution as Exemplified by Plant
Parasites, " Trudy Laboratorii Evoliutsionnoi Ekologii Rastenii imeni
B. A. Kellera, Institut Lesa, Akademiia Nauk SSSR, vol. 2, 1950, pp. 190-199.
451 Akl3

So: SIRA SI-90-53, 15 Dec. 1953

BEYLIN, I.G.

Diseases of acorns and methods of their prevention
Moskva, Izd-vo Akademii nauk SSSR, 1951

100. BEVLIN I. G.

"In Regard to the Effectiveness of Forest Plantings in Protecting Young
(Field) Crops from Fungus Diseases," Nauchnye Voprosy Polezashchitnogo Lesa
Razvedeniia, Institut Lesa, Akademiia Nauk SSSR, vol.1, 1951, pp. 252-264.
99.9 AKLN

So: SIRA S1-90-53, 15 Dec. 1953

101. BEYMIN, I. G.

"Sanitary Conditions of Shelter-belts and Measures for Preventing Mass
Outbreaks of Diseases in Them," Nauchnye Voprosy Polezashchitnogo Lesa
Razvedeniia, Institut Lesa, Akademiia Nauk SSSR, vol. 1, 1951, pp. 265-275.
99.9 AklN

So: SIRA S1-90-53, 15 Dec. 1953

BEYLIN, I. G.

6817. Beylin, I. G. Georgiy Fedorovich morozov-vydayushchiysya
lesovod i geograf. (1867-1920) M., Izd-vo Akad. nauk SSSR, 1954.
176 s. s. ill.; 1 L. plan. 20 sm. ("kad. nauk SSSR. In-1 lesa. Nauch.-
popul. seriya). 5.000 ekz. 3 r. - "khronol. spisok trudov, statey i
zametok prof. G. M. Morozova (1896-1920)", s. 153-174 (316 nazv.)--
(55-2341)P 634.9(47) (092 Morozov) & 91(47) (09) & (012 Morozov)

SO: Knizhnaya Letopis' No. 6, 1955

BEYLIN, Isaak Grigor'yevich, prof.; YURRE, N.A., red.; GOSPODARSKAYA,
T.N., red.izd-va; BACHURINA, A.M., tekhn. red.

[Studies on the history of forestry societies in prerevolutionary Russia] Ocherki po istorii lesnykh obshchestv dorevoliutsionnoi Rossii. Moskva, Goslesbumizdat, 1962. 156 p.
(MIRA 15:11)

(Forestry societies)

BEYIJIN, I.G., Prof.

Mistletoe. Zashch.rast. ot vred. i bol. 9 no.21:32-40 '84.
(MIRA 18:2)

BEYLIN, L.,; VORONKOV, Yu., shofer, byvshiy kursant; GOREV, G., sotrudnik;
PEVZNER, S., sotrudnik; GARTEMBERG, B.

- Reorganizing the training of drivers. Za bezop.dvizh. no.2:8-9
P '60. (MIRA 13:5)

1. Zamestitel' direktora Uchebnogo kombinata Glavmosavtotransa
(for Beylin). 2. Metodicheskiy kabinet Ministerstva avtomobil'nogo
transporta i shosseynykh dorog RSFSR (for Gorev and Pevzner).
(Automobile drivers)

BEYLIN, L.

Well timed and correct. Avt. transp. 38 no. 12:42 D '60.
(MIRA 13:12)

1. Predsedatel' predmetnoy sekti po pravilam dvizheniya i
vozhdeniyu Uchebnogo kombinata Glavmosavtotransa.
(Traffic regulations)

TA 12T44

BEYLIN, L. A.

USSR/Plating, Chromium
Motors, Aircraft

May 1947

"Chrome Plating Technique for Piston Rings for
Aircraft Motors," L. A. Beylin, G. P. Lavrov, 4 pp

"Avtomobil'naya Promyshlennost'" No 5

Discusses chrome plating of rings with dense chrome,
advantages of rings plated with porous chrome,
technique of porous chrome plating of rings (in 4
operations), chrome plating and anode preparation
of rings in one and in two baths, and the process-
ing of the rings after plating.

12T44

BEYLIN, L.D., kand.tekhn.nauk, otv.red.; ZVORYKINA, L.N., red.izd-va;
SEKLYAR, S.Ya., tekhn.red.

[Handbook of a mine building foreman] Spravochnik gornogo
mastera-shakhtostroitelia. Moskva, Gos.nauchno-tekhn.izd-vo
lit-ry po gornomu delu, 1960. 543 p. (MIRA 13:4)
(Mining engineering) (Mine management)

BEYLIN, L.G.

Comparative evaluation of two modifications of excretory urography. Vestn. rentgen. i radiol. 38 no.4:76 JI-Ag'63
(MIRA 17:2)

1. Iz rentgenovskogo otdeleniya bol'nitsy No.16 Voronezha.

NIKIFOROV, N., inzh.; BEYLIN, M., inzh.

Outlook for the building of small craft from plastic. Rech.
transp. 23 no.1:23-24 Ja '64. (MIRA 18:11)

BEYLIN, M.I.

24

Continuous filtration in the production of azo dyes. M.
1. Brillman. *Org. Chem. Ind. (U. S. S. R.)* 7, 145-0 (1940).
A discussion with math. treatment. Chas. Blanc

ASME-SLA METALLURGICAL LITERATURE CLASSIFICATION

CIA-RDP86-00513R000205130003-7"

BEYLIN, M. I.

AUTHOR: Beylin, M.I., Candidate of Technical Sciences. 68-6-2/19

TITLE: Methods of Intensification of De-watering of Flotation Concentrate. (Puti intensifikatsii protsessa obezvozhivaniya flotokontsentrata)

PERIODICAL: Koks i Khimiya, 1957, No.6, pp. 6 - 9 (USSR)

ABSTRACT: Possibilities of increasing the efficiency of vacuum filters for flotation concentrates are discussed. Operational data of vacuum filters in foreign countries are given for comparison (Table 1). According to data of Kal'miussskoy TsOF the cost of filtering of 1 ton of concentrates is 1.26 Rouble, of which 0.73 Rouble is the cost of electric power, thus a decrease in power consumption should be the main source of possible economy. The costs of beneficiation and de-watering of concentrates on foreign works are given in Table 2. Intensification of the filtration process can be obtained by increasing the density and temperature of the pulp, the influence of which is shown in Figs. 1 and 2 and Table 3. The other method of improving the de-watering process is the use of hydrophobic surface-active substances. The influence of aerazole and tergitol additions on the moisture content of filter cake is shown in Figs. 3 and 4, respectively. It is concluded that unsatisfactory operation of filters is mainly

Card 1/2

68-6-2/19
Methods of Intensification of De-watering of Flotation Concentrate.

due to irregularities in their operation, in the first place due to wrong blow-off practice (separation of filter cake from the filter). A considerable increase in the output and a decrease in power consumption can be obtained by introducing flash blow-off. Further improvements can be obtained by increasing the density and temperature of the pulp as well as by application of surface-active substances. There are 3 tables, 4 figures and 9 references, 3 of which are Slavic.

ASSOCIATION: Kharkov Mining Institute. (Kharkovskiy Gornyy Institut)

AVAILABLE: Library of Congress

Card 2/2

02 12 14 17 1
AUTHOR: Beylin, M.I.

6812-4/25

TITLE: Physico-chemical Methods of Reducing Moisture Content of Coal Blends for Coking (Fiziko-khimicheskiye metody snizheniya vlazhnosti koksovoy shikhty)

PERIODICAL: Koks i Khimiya, 1957, no.12, pp. 12 - 16 (USSR)

ABSTRACT: An investigation of the influence of surface active substances on de-watering of coal fines (filtration or centrifuging) was investigated. Size distribution of coal slurries investigated are given in Table 2. Experimental technique was to filter slurries under constant conditions and to determine the moisture content in the filter cakes. Experimental results are given in Tables 4 and 5, respectively. Capillary heights for coals of various sizes with and without two different surface-active substances were determined - Table 6. It is concluded that the method has possibilities of practical application as additions of some surface-active substances decreased considerably the moisture content of the filter cakes and increased the velocity of filtering. There are 6 tables and 3 references, 2 of which are Slavic.

ASSOCIATION: Khar'kov Mining Institute (Khar'kovskiy gornyy institut)
AVAILABLE: Library of Congress
Card 1/1

BEYLIN, Miron Israilevich, dots.. kand.tekhn.nauk; AVSEYENOK, A.F.,
otvetstvennyy red.; RYKOV, N.A., red.izd-va; SHKLYAR, S.Ya.,
tekhn.red.

[Dewatering products in coal beneficiation] Obezvozhivanie
produktov obogashcheniia uglia. Moskva, Ugletekhizdat, 1958. 173 p.
(Coal preparation) (MIRA 11:6)

BEYLIN, M.I., kand.tekhn.nauk

Drying of coal in a "fluidized" bed. Koks i khim. no.9:10-15 '60.
(MIRA 13:9)

1. Khar'kovskiy gornyy institut.
(Coal—Drying) (Fluidization)

BEYLIN, M.I., kand.tekhn.nauk; YEMEL'YANOV, D.S., doktor tekhn.nauk

Studying the process of coal drying in a fluidized bed. Ugol' Ukr.
5 no.7:16-20 J1 '61. (MIRA 15:1)

1. Khar'kovskiy gornyy institut.
(Coal preparation plants) (Fluidization)

BEYLIN, M.I.

Certain problems in the hydrodynamics of a fluidized bed. Khim. i
tekh. topl. i masel 6 no. 4: 19-23 Ap '61. (MIRA 14:3)

1. Khar'kovskiy gornyy institut.
(Fluidization)

BEYLIN, M.I., kand.tekhn.nauk

Dust removal from salt in a fluidized bed. Sbor.nauch.trud.
UkrNIISol' no.6:77-83 '62. (MIRA 17:3)

BEYLIN, M.I.; YEMEL'YANOV, D.S.; KHADZHI OGLO, A.V.; BOCHAROV, N.G.

Industrial testing of the type KhGI fluid-bed dryer. Koks i
khim. no.8:14-19 '63. (MIRA 16:9)

1. Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i
vychislitel'noy tekhniki (for Beylin, Yemel'yanov, Khadzhioglo).
2. Yasinovskiy koksokhimicheskiy zavod (for Bocharov).
(Coal preparation) (Drying apparatus—Testing)

BEYLIN, M.I., kand.tekhn.nauk; KHADZHILOGLO, A.V.; BUTKO, V.I.; STEPANENKO, A.M.;
SIPOVICH, S.Yu.; LITMANOVICH, I.M.

Experiment in coal slurry drying in a fluidized bed. Koks i khim. no.
11:18-20 '63. (MIRA 16:12)

1. Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki (for Beylin, Khadzhioglo, Butko, Stepanenko).
2. Yasinovskiy koksokhimicheskiy zavod (for Sipovich, Litmanovich).

BEYLIN, M.I., kand. tekhn. nauk; STEPANEKO, A.M.

Studying the drying of common salt in a fluidized bed. Sbor.
nauch. trud. UkrNIISol' no.7:111-116 '64 (MIRA 18:1)

NIKIFOROV, NIKOLAI NIKOLAEVICH; BEYLIN, Mark Konstantinovich;
GUSHCHENKO, A.G., red.

[Technology and mechanization of the manufacture of large-size articles from glass plastics] Tekhnologiya i mekhanizatsiya proizvodstva krapnogabaritnykh izdelii iz stekloplastikov. Leningrad, 1964. 42 p. (MIRA 18:7)

BEYLIN, Mark Konstantinovich; KUKOR, G.Ye., red.

[Economic evaluation of the manufacture of structures
from glass plastics] Ekonomicheskaiia otsenka izgotovleniia
konstruktsii iz stekloplastikov. Leningrad, 1965. 27 p.
(MIRA 18:12)

BEYLIN, P.Ye.

Organization of conditioned reflex sleep therapy in the Makarov
Hospital. Klin. med., Moskva 30 no.9:50-58 Sept 1952. (GIML 23:2)

1. Candidate Medical Sciences.

SATAYEVA, R.M.; BEYLIN, P.Ye.; LAGEDZA, I.A.; DENISOVA, N.P.

Data on the problem of a prophylactic and therapeutic regimen and its efficacy.
Klin.med. 31 no.9:71-74 S '53. (MLRA 6:11)

1. Makarovskaya rayonnaya bol'nitsa Kiyevskoy oblasti. (Sleep)

BEYLIN, P.Ye., kand.med.nauk (Kiyev)

Fresh air hood for bed patients. Vrach.delo no.6:639 J. '58

(MEDICAL INSTRUMENTS AND APPARATUS)
(AEROTHERAPY)

(MIRA 11:7)

BEYLIN, P.Ye. [Beilin, P.IU.]

Effect of pain stimuli on the course and outcome of infectious
and toxic processes. Fiziol.zhur. [Ukr.] 5 no.4:500-508
Jl-Ag '59. (MIRA 12:11)

1. Kiyevskiy institut usovershenstvovaniya vrachey i Kiyevskiy
meditsinskiy institut, kafedra normal'noy fiziologii.
(PAIN) (LOCAL ANESTHESIA)

BEYLIN, Pavel Yefimovich, vrach, chlen Kommunisticheskoy partii Sovetskogo
Soyuza, chlen Soyuz sovetskikh pisateley; SMOLIN, V.N., pod-
polkovnik, red.; MEDCHIKOVA, A.N., tekhn.red.

[Live, soldier] Zhivi, soldat. Moskva, Voen.izd-vo M-va obor.
SSSR, 1960. 129 p. (MIRA 13:5)
(MEDICINE, MILITARY)

BEYEN, S.Ya.

Front cutters with mechanical fastening on hardening plates.
Rationalizatsiya in road in 1964.

BEYLIN, Sholom Iyerukhinovich; SHAYTOR, Petr Seliverstovich; AKSENOV, G.A.,
redaktor; BEL'CHENKO, N.I., redaktor izdatel'stva; BACHURINA, A.M.,
tekhnicheskiiy redaktor

[Manufacture of spools] Katushechnoe proizvodstvo. Moskva, Gosles-
bumizdat, 1956. 175 p. (MIRA 10:1)
(Woodworking machinery) (Thread)

BEYLIN, Sh.I., inzhener.

Modernization of round-stock lathes. Der.prom. 5 no.12:19-20 D'56.

(MIRA 10:1)

1. Leningradskaya katushechnaya fabrika imeni Volodarskogo.
(Lathes)

BEYLIN, Sh.I., inzhener.

Machine for the production of dowel pins. Der. prom. 6 no.4:22
Ap '57. (MLRA 10:6)

1. Katushechnaya fabrika im. Volodarskogo.
(Woodworking machinery)

BEYLIN, Sh.I., inzh.

Automatic production line for making balls for abaci. Der.prom. 7
no.9:27 S '58. (MIRA 11:11)

1. Leningradskaya katushechnaya fabrika imeni Volodarskogo.
(Abacus) (Woodworking machinery)

BEYLIN, Sholom Iyerukhilovich; GOLUBEVA, T.M., red.; FOMICHEV, A.G., red.
izd-va; BOL'SHAKOV, V.A., tekhn. red.

[Mechanization and automation of wood turning operations] Me-
khanizatsiia i avtomatizatsiia tokarnykh rabot po derevu.
Leningrad, 1962. 21 p. (Leningradskii dom nauchno-tekhnicheskoi
propagandy. Olmen peredovym opytom. Seriya: Derevoobrabatyva-
yushchaia promyshlennost', no.1) (MIRA 15:5)
(Woodworking machinery) (Automatic control)

BETLIN, Sholom Iyerukhimovich; NIKIFOROV, A.G., red.

[Manual for wood turners] Posobie dlia tokarei po dre-
vu. Moskva, Izd-vo "Lesnaia promyshlennost'," 1961, 114 p.
(HIRA 1: 7)

L 60140-65 EWT(m)/EPF(c)/ENP(j) Pc-4/Pr-4 RPL JAJ/PM
 ACCESSION NR: AP5016512

UR/0190/65/007/006/1085/1091
 678.01:54+678.84

AUTHORS: Beylin, S. I.⁴⁴; Pokatilo, N. A.⁴⁴; Dolgoplosk, B. A.⁴⁴

TITLE: Study of the reactions of the free methyl radical with organosilicon compounds⁴⁴

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 6, 1965, 1085-1091

TOPIC TAGS: organosilicon compound, organic chemistry, methyl radical, siloxane compound, polymerization

ABSTRACT: The reactions of the free methyl radical with organosilicon compounds containing different organic groups (methyl, phenyl, vinyl, allyl, and trifluoropropyl) at the silicon atom were investigated. The relative activity of these groups in the reaction of the methyl radical addition and the hydrogen atom abstraction is discussed by means of formulas. Cyclic compounds of the type $(R_1R_2SiO)_4$ were used. The source of free radical was acetyl peroxide decomposing during heating in solution according to $(CH_3COO)_2 \rightarrow 2CH_3 + 2CO_2$. The quantitative evaluation of the two reactions was carried out on the basis of methane yield

Card 1/3

L 60140-63
ACCESSION NR: AP5016512

determination during the decomposition of acetyl peroxide in a $[(CH_3)_2SiO]_4$ solution. The ratio of the velocity constants (k_2/k_1) for both reactions is given by an equation. Tabulated data are given for the reaction of the methyl radical with aromatic silicon compounds at 95C. It was found that in siloxane compounds the probability of the addition of methyl radical to the phenyl group at the silicon atom is 5 times as great as the probability of the hydrogen abstraction from CH_3 . The acceptor capability of the phenyl group with respect to the methyl radical in siloxanes is 16 times that of benzene. Tabulated data given for the reaction of the methyl radical with vinyl siloxanes and vinyl silanes at 80C show that vinyl siloxanes are polymerized to a polymer with a molecular weight of 2500. The methane yield increased gradually with decreasing vinyl siloxane concentration. In the reaction of the methyl radical with allyl silanes and allyl siloxanes, the probability of the addition of the methyl radical to the allyl double bond is 33-43 times as great as that of the hydrogen abstraction from the methyl group of the compounds investigated, and only 4 times as great as the probability of the hydrogen removal from the corresponding compounds. α -methylene groups play an important role in the hydrogen abstraction. In vinyl silanes and vinyl siloxanes, the k_2/k_1 ratio is 86 and 140, respectively.

Cord 2/3

L 60140-65

ACCESSION NR: AP5016512

2
This shows a higher reactivity of the vinyl groups in the reaction with free radicals as compared with allyl radicals. The reactivity of the double bonds of vinyl and allyl types in siloxanes is much higher than in silanes. In the reaction of the methyl radical with vinyl siloxanes in the presence of organic fluorosilicon compounds, the methane yield is the same as by using octamethylcyclotetrasiloxane as a solvent. The experimental procedure is described, and the experimental apparatus is explained and illustrated. Orig. art. has: 3 figures, 4 tables, and 7 formulas.

ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva, AN SSSR
(Institute of Petrochemical Synthesis, AN SSSR) 4-1

SUBMITTED: 04Aug64

ENCL: 00

SUB CODE: 00

NO REF SOV: 001

OTHER: 004

Card 3/3

BEYLIN, S.I.; FOKATID, N.A.; DONGOLAKA, B.A.

Reaction of a free methyl radical with organosilicon compounds.
Vysokom. soed. 7 no.6:1085-1091 Je '65. (MIRA 18:9)

1. Institut neftekhimicheskogo sinteza imeni A.V.Topchiyeva AN SSSR.

BEYLIN, S. M.

Preparation of acetylene from petroleum by the Y. V. Tatarinov method S. M. Beylin. *Autogennoe* 1936, No. 6, 18-20. Petroleum or its products are subjected in closed cylinders, provided with a water jacket, to the action of short elec. discharges yielding gaseous substances, which are allowed to pass through a bubble tower, condenser, scrubber and gasometer. The yield of gas, which can be used for welding, is 40-57% and its compn. is C_2H_2 , 50, C_2H_4 , 18, other unsatd. hydrocarbons (C_2H_2) 10, CH_4 and its homologs 15, and $CO + CO_2 + O_2$ 2%. One cu. m. of gas weighs about 0.7 kg. and it has a heat capacity of 8000 cal/cu. m. A. A. Podgorny

S/1.1/62/000/00 /002/00-
DO:O/D113

AUTHOR: Beylin, S.Ya.

TITLE: Electro-pulse machining of parts of pneumatic and hydraulic equipment

PERIODICAL: Stanki i instrument, no. 3, 1962, 21-23

TEXT: General information on the process of electro-pulse machining of parts of pneumatic and hydraulic equipment is given and special tools for producing connecting ducts in parts of hydraulic pumps, distributor valves, pressure regulators, etc., without cutting through the surface, are described. The special -shaped tool shown in photographs consists of a holder for fitting the machine spindle, and a traverse for holding a tool-electrode of required size and contour. Replaceable collars are used on the traverse for setting the electrode to the required duct dimensions and preventing electric contact between the traverse and the workpiece metal. Collars are of any material insusceptible to the effect of the work fluid. The process is more productive than electro-spark erosion, the electrode wear is low, and ~~large~~-sized ducts of any contour can be produced. The tool can be used in electro-pulse or any broaching machines, and not only ducts of circular contour can be made. One electro-pulse machine described, has a special

Card 1/2

Electro-pulse machining

S/121/62/000/003/002/004
D040/D113

МГН -2 (MGI-2) generator. Red copper, ENIMS graphite compositions and **T15K6** (T15K6) hard alloy were tried as electrode material, and **ЭЭГ** (EEG) graphite electrodes were found to be the best for the electro-pulse process, whilst hard alloy electrodes proved good in the electro-spark process. The wear of EEG electrodes did not exceed 0.4 % of removed metal volume in producing 8 x 20 mm ducts in silumin. The tool setting for required duct dimensions is described. There are 5 figures.



Card 2/2

L 57064-65 EWT(m)/EWP(t)/EWP(k)/EWP(b) Pf-4 JD

ACCESSION NR: AP5013786

UR/0121/65/000/005/0034/0035
621.9.018.5.001.5

AUTHORS: Baylin, S. Ya.; Polotskiy, V. Ye.

TITLE: Tool feed direction during electric impulse machining of profiled surfaces

SOURCE: Stanki i instrument, no. 5, 1965, 34-35

TOPIC: electric impulse machining, spark machining, profile machining

ABSTRACT: The optimum direction of the tool during the finishing cut in electric impulse machining is evaluated to provide the minimum cutting time (minimum material removal). The minimum depth of the finishing cut when the tool is not perpendicular to the point being machined is given by

$$\Delta_s = [(H_1 + T_1) - (H_2 + T_2)] : \cos \alpha,$$

where α = angle between tool feed direction and normal to surface, H_1 and T_1 , H_2 and T_2 - depth of irregularities and thickness of affected surface layer for rough and final cuts respectively. The total tool displacement necessary between the rough and final cuts is

$$E = \Delta_s + (H_1 - H_2) : \cos \alpha,$$

Card 1/2

L 57064-65

ACCESSION NR: AP5013786

where δ_1 and δ_2 - electrode clearance during rough and finish cuts respectively. Since α can change from 0-90° for a single profile, the tool should be placed at some angle to the profile to minimize the finishing depth of cut. A procedure for finding this optimum angle is developed for a profile made of arcs of circles. In this case the profile is calculated with respect to one coordinate system (all radii of curvature are drawn in an x-y coordinate system), the two points which result in the maximum deviation of the normal to the surface from the vertical on both sides of the vertical are determined, and the optimum tool angle then becomes

$$\alpha_{opt} = \frac{\alpha_A + \alpha_D}{2}$$

where A and D are the points where the normal deviates most from the vertical. The maximum α encountered during the cut will then be

$$\alpha_{max} = \frac{\alpha_D - \alpha_A}{2}$$

and this will provide minimum material removal necessary during the finishing cut with a fixed tool angle. The procedure is demonstrated on an example. Orig. art. has: 2 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 000

ENCL: 00
OTHER: 000

SUB CODE: IE

Card 2/2
dm

DASHKEVICH, L.B.; BEYLIN, V.G.

Carbon suboxide and some of its reactions. Part 10: Reactions of carbon suboxide with substituted acyclic amines. Zhur.ob.khim. 31 no.5:1671-1674 My '61.
(MIRA 14:5)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(Amines) (Carbon oxide)

DASHKEVICH, L.B.; BEYLIN, V.G.

Carbon suboxide and some of its reactions. Part 14: Interaction of carbon suboxide with ethylenimine and six-membered cyclic imines. Zhur.ob.khim. 32 no.8:2423-2426 Ag '62. (MIRA 15:9)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(Carbon oxide) (Ethylenimine)

DASHKEVICH, L.B.; BEYLIN, V.G.; SIRAYA, V.M.

Problem of the interaction of carbon suboxide with heavy water.
Zhur.ob.khim. 32 no.8:2747-2748 Ag '62. (MIRA 15:9)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(Carbon oxide) (Deuterium oxide)

DASHKEVICH, L.B.; BEYLIN, V.G.

Reaction of carbon suboxide with β -haloalkyl amines. Zhur. ob.
khim. 34 no.8:2808-2809 Ag '64. (MIRA 17:9)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

L 62552-65

EWT(1)/EPF(c)/EPF(n)-2/ENG(m)/

Pr-4/Ps-4/Pu-4

UR/2649/65/000/189/0103/0109 41

ACCESSION NR: AT5016484

AUTHOR: Goryainov, L. A.; Beylin, V. I.; Pavlenko, V. A.

TITLE: Finding the Reynolds number in convective heat exchange relationships 21 B+1

SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 189, 1965. Issledovaniye teploobmena v teploenergeticheskikh ustanovkakh i v ustanovkakh dlya polucheniya poluprovodnikovyykh materialov (Investigation of heat exchange in thermal power units and in equipment for producing semiconductor materials), 103-109

TOPIC TAGS: Reynolds number, heat exchange, thermodynamic analysis

ABSTRACT: This article examines certain peculiarities which take place during various approaches to the determination of the Reynolds number. The numerical values of the Reynolds number are calculated from the formulas:

$$Re' = \frac{wd}{\nu}; \quad (1)$$

$$Re'' = \frac{Gd}{\mu f}; \quad (2)$$

Card 1/2

L 62552-65

ACCESSION NR: AT5016484

where w is the rate of motion of the fluid in m/sec; d is the decisive dimension in meters; ν is the kinematic viscosity of the fluid in m^2/sec ; μ is the dynamic viscosity of the fluid in $\text{N}\cdot\text{sec}/\text{m}^2$; G is the mass flow of the fluid in kg/sec ; f is the cross section of the channel in m^2 . In formula (1) the calculation is done by linear velocity, and in formula (2)--by mass flow. These two expressions are not identical in all cases. If the physical parameters refer to a temperature which is different from the mean temperature of the flow, then the values for Re calculated by (1) and (2) will differ. Formulas are derived relating these two expressions and examples are given to illustrate the use of these formulas. It is recommended that formula (1) should be used for forced airflow since there is a smaller scatter of points in this case when the temperature simplex is very different from unity. When the physical parameters relate to a temperature which differs from the flow temperature, the values of Re and invariant relationships differ when finding Re according to linear velocity and according to mass flow. There is less scatter of the experimental points when Re is calculated according to linear velocity. Orig. art. has: 3 figures and 12 formulas.

ASSOCIATION: Institut inzhenerov zheleznodorozhnogo transporta, Moscow (Institute of Railroad Transportation Engineers)

SUBMITTED: 00

ENCL: 00

SUB CODE: TD, ME

NO REF SOV: 010

OTHER: 000

Card 2/2 *alum*

KVITKOVSKIY, Yu.V., kand. tekhn. nauk; BEYLIN, V.I., student

Determining the possibilities and expediency of parallel
joining of pressure lines. Trudy MILT no.176:95-99 '63.
(MIRA 17:6)

BEYLIN, V.M.; VEKILOV, Yu.Kh.; KADYSHEVICH, A.Ye.; PIGUZOV, Yu.V.; RATTKE, R.

Influence of the intrinsic photoeffect on the damping of elastic waves in Ge. Fiz. tver. tela 5 no.8:2371 Ag '63. (MIRA 16:9)

1. Moskovskiy institut stali i splavov.
(Elastic waves) (Photoelectricity)

BEYLIN, V.M.; VEKILOV, Yu.Kh.

Influence of the intrinsic photoeffect on the microhardness of Ge and Si. Fiz. tver. tela 5 no.8:2372-2374 Ag '63. (MIRA 16:9)

1. Moskovskiy institut stali i splavov.
(Photoelectricity) (Hardness)

MEDYANTSEV, A.N., kand. tekhn.nauk; KUKLIN, B.K., kand. tekhn.
nauk; FILIMONOV, A.F., inzh.; BAKHTIN, A.F., inzh.;
SHUSHKOV, A.M., inzh.; SINYUGIN, V.M., inzh.; CHERNYAYEV,
V.I., inzh.; BEYLIN, V.Ya., inzh.; ZEL'VYANSKIY, A.Sh.,
inzh.; ZHIZLOV, N.I., otv. red.

[Selecting systems of multiple-horizon mining of flat seams
in the Donets Basin] Vybór skhem sovmestnoi razrabotki po-
logikh plastov Donbassa. Moskva, Gosgortekhzdat, 1963. 106 p.
(MIRA 17:5)

1. Donetsk. Donetskii nauchno-issledovatel'skiy ugol'nyy in-
stitut. 2. Donetskii nauchno-issledovatel'skiy ugol'nyy institut
(for Kuklin). 3. Ukrainskiy filial Vsesoyuznogo nauchno-
issledovatel'skogo marksheyderskogo instituta (for Medyantsev).

BEYLIN, Ye.A. (Leningrad)

Limited states of bent and compressed-bent rods. Stroi. mekh. i
rasch. soor. 3 no.1:18-23 '61. (MIRA 14:2)
(Elastic rods and wires)

BEYLIN, Ya. A.

Beylin, Ya. A. - "Fluorography in polyclinic treatment", Vracheb. delo, 1949, No. 5, paragraphs 453-56.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949.)

BEYLIN, Ya. L.

SOLOV'YEV, P.A., inzhener; BEYLIN, Ya. L.

Furniture panels with wood fiber boards. Der.prom.4 no.7:22-23
J1'55. (MIRA 8:10)

1. Leningradskaya mebel'naya fabrika no.3
(Leningrad--Furniture industry)

BEYLIN, Ya.L.; SOLOV'YEV, P.A.

Manufacture of furniture panels from nondimensional cuttings
of wood particle boards. Der.prom. 14 no.11:23 N '65.
(MIRA 18:11)

1. Leningradskaya mebel'naya fabrika No.3.

MEZLIN, I. Z.

MEZLIN, I. Z.

Fluorography, roentgenoscopy roentgenography. Sovet med. No. 6,
June 50. p. 36-8

1. Of the Dispensary Sector (Head—S. Ye. Mezlin), Institute for
Tuberculosis of the Academy of Medical Sciences USSR (Director—
Z. A. Lobedeva; Scientific Director—A. Ye. Rabukhin).

GLML 19, 5, Nov., 1950

BEYLIN, Ya. Z.

Sectional roentgenography. Prob. tuberk., Moskva no3:64-
65 May-June 1951. (CJML 20:11)

1. Of the Dispensary Sector (Head -- Prof. S. Ye. Mezlin),
Institute of Tuberculosis of the Academy of Medical Sciences
USSR (Director -- Z. A. Lebedeva; Scientific Supervisor
Prof. A. Ye. Rabukhin).

BEYLIN, Ya.Z.

Sequestration in caverns. Prob.tuberk., Moskva No.1:68-69 Jan-Feb 51.
(CIML 20:6)

1. Of the Dispensary Sector (Head--S.Ye.Nezlin), Institute of Tuberculosis of the Academy of Medical Sciences (Director--Z.A.Lebedeva; Scientific Supervisor--A.Ye.Rabukhin).

BEYLIN, Ya. Z. doktor biologicheskikh nauk

Gigantic bubbles in the lungs. Vest. rent. i rad. 31 no. 5:86-89
S-O '56. (MLRA 10:1)

1. Iz tuberkuleznogo dispansera No. 10 Moskvy.
(EMPHYSEMA, PULMONARY, radiography
bullous, with gigantic air bubbles)

BEYLIN, Ya.Z., doktor biol.nauk

Cavities in the lungs in cancer [with summary in English]. Vest.rent.
1 rad. 33 no.4:14-18 J1-Ag '58 (MIRA 11:8)

1. Iz protivotuberkuleznykh dispanserov No.10 i No.13, Moskva.
(LUNG NEOPLASMS, compl.
cavitation (Rus))

BEYLIN, Ya.Z., doktor biologicheskikh nauk (Moskva)

Comparative evaluation of narrow- and wide-frame fluorography in the mass detection of pulmonary tuberculosis. Sov. zdrav. 20 no.8:31-34 '61. (MIRA 15:1)

1. Iz organizatsionno-metodicheskogo otdela Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR i protivotuberkuleznogo dispansera No.16.
(DIAGNOSIS, FLUOROSCOPIC) (TUBERCULOSIS)

VORONIN, I.S.; KERSHANSKIY, I.I.; TAKEZHANOV, S.T.; BEYLIN, Ya.Z.;
SARSEMBAYEV, A.S.; KAGARMANOV, O.Zh.

Introduction of the zinc condensation process in the electrothermal
treatment of silver foam. TSvet. met. 38 no.2:18-24 F '65.
(MIRA 18:3)

RESHEVNIKOV, N.I.; DASHKOV, K.S.; BEYLIN, Ya.Z.

Practice in vrc-metallurgical refining of crude lead
at the Ust' Kamenogorsk Lead Combine. TSvet. met. 38 no.1:
41-46 Ja '65 (MIRA 1802)

1. BEYLIN, YE. A., DZHANELIDZE, G. Yu.
2. USSR (600)
4. El-asticity
7. Review of work on dynamic stability of elastic systems. Prik. mat. i mekh.
16, no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

Beylin, Ye. A.

124-11-13111

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 121 (USSR)

AUTHOR: Beylin, Ye. A.

TITLE: On the Free Flexural Vibration Frequencies of Arches with Elastically Restrained Ends. (O sobstvennykh chastotakh izgibnykh kolebaniy arok s uprugozashchemlennymi pyatami)

PERIODICAL: Nauch. tr. Leningr. inzh.-stroit. in-ta, 1956, Nr 23, pp 28-42

ABSTRACT: The free vibrational frequencies of circular arches are calculated approximately, with due consideration given to the elasticity in the constraint of their ends, which, meanwhile, are assumed to remain undisplaced. An exact transcendental equation of the free vibrational frequencies is adduced for arches constrained by two terminal hinges, and its unsuitability for practical purposes is established.

The solution of the given problem is accomplished by the Bubnov-Galerkin method. In the approximating beam functions utilized therein the linear arguments are replaced by angular ones. The Author asserts that the application of such functions enables one to determine the free vibrational frequency of arches of any form.

Card 1/2

124-11-13111

On the Free Flexural Vibration Frequencies of Arches with Elastically Restrained Ends. (Continued)

Practically convenient, approximate formulas are obtained for the case of antisymmetrical (i. e., with two semi-waves) and symmetrical (i. e., with three semi-waves) vibrations of arches.

A boundary case is investigated, when the elastic constraint becomes either a hinge or a rigid clamping.

(A. I. Oseled'ko)

Card 2/2

BEYLIN, Ye.A., kand. tekhn. nauk

Strength of circular arches with elastically fastened abutments.
Sbor. nauch. trudov LISI no.26:84-99 '57. (MIRA 12:1)
(Arches)

BEYLIN, ZH. Z.

25558. BEYLIN, ZH. Z.

Nauchno-Tekhnicheskaya konferentsiya Moskovskogo Stankoinstrumental'nogo Instituta. (Mart 1948G.) Vestnik Vyssh. Shkoly, 1948, No. 6, s. 43-45.

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

PHASE I BOOK EXPLANATION 807/5179

Alma-Ata, Kazakhstan. Universitet.

Issledovaniya professorov perenosa. Voprosy teorii otzovov i mosti (Study of Transport Processes. Problems in the Theory of Relativity) Alma-Ata, 1959. 236 p. Errata slip inserted. 1,000 copies printed. (Series: Isa Study)

Sponsoring Agency: Ministerstvo vysshogo obrazovaniya RSUR and Kazakhskiy gosudarstvennyy universitet in S.M. Kirova.

Editorial Board: V.P. Kashkarov, M.D. Kozov, and M.M. Petrova; Resp. Ed.: L.A. Valiev; Tech. Ed.: L.D. Kashkarov.

PURPOSE: This collection of articles is intended for research physicists and engineers. It can also be used by instructors and students at universities.

COVERAGES: The articles of this collection contain the results of 19 studies in transport problems and the general theory of relativity made from 1956 to 1958 by the staff of the Institute of Physics and Technology of the Kazakhskiy universitet in S.M. Kirova (Department of General Physics and Theoretical Physics of the S.M. Kirov Kazakh State University). The articles are arranged in two groups. Group one contains 16 articles concerning the research activity of the Kazakhskiy universitet in the field of transport problems. Group two contains 3 articles reporting on studies of the Department of Theoretical Physics on problems of the theory of relativity. Articles one of the collection is an introduction and review of the problems of transport processes and gives a fairly detailed bibliography of contributions of members of the Physics Department of Kazakh State University. No personal data are mentioned. References accompany each article.

TABLE OF CONTENTS:

Klinger, V.G., and V.V. Rombin. Simulation of Light Produced by Gamma Radiation From a Cylindrical Source	89
Rubovik, I.I., and V.G. Klinger. Light Exchange Between Mirror and Diffuse Surfaces	97
Kozov, M.D. Application of the Formal Thermal Regime Method in the Determination of the Coefficient of Diffusion of Liquids	101
Vynchukova, V.P., and M.D. Kozov. Temperature Dependence of the Coefficient of Diffusion of Gases	114
Kozov, M.D. Relation Between Coefficients of Inter- and Self-Diffusion	126
Malikova, A.G., and V.P. Kashkarov. Two-Phase Laminar Twisted Stream of Gas Under Compression	137
Kashkarov, V.P. Motion of a Viscous Liquid Inside a Cone With a Porous Side Surface	153
Kashkarov, V.P. An Accurate Solution of the Equation of Energy	162
Luk'yachenko, A.F. Contribution to the Investigation of the Thermal Regime of a Heterogeneous Process	167
Turebkhina, E.K., and G.K. Dayadov. Turbulent Mixing in Volume	177
Kashkarov, M.D., and V.A. Potashnikov. The Malmgren-Shuleykin Method in its Application to the Plane Surface Problem	185

II. PROBLEMS OF THE THEORY OF RELATIVITY

Petrova, E.M. Laws of Conservation for a System of Rotating Bodies in the General Theory of Relativity	192
Artikova, Z.A., and E.M. Petrova. The System of Spherically Symmetrical Bodies in the General Theory of Relativity	209
Kuramaliyev, Z. Tensors of a Moment of Momentum (Kinetic Momentum) and of a Moment of Force in Relativistic Mechanics	229

AVAILABLE: Library of Congress (Q271.A45)

Card 5/5

24/000/exp
7-85-61

BEYLINA, G.B.; RASHKOVICH, M.P.; KHINKUS, A.S.

Units for heating and automatic temperature control used in processing
plastics. *Bul'tekh.ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.*
inform. 17 ~~no.10:20-82~~ 0 '64. (MIRA 18:4)

BEYLINA, Guts; JANOVS, J.[translator]; DINZA, J., red.; KIRULE, E.,
tekh. red.

[Labor productivity in industrial enterprises] Darba razigums
rupniecibas uzņemumos. Riga, Latvijas Valsts izdevnieciba,
1961. 33 p. (MIRA 15:3)
(Latvia--Labor productivity)

BEYLINA, Guta Khaimovna; DEYCH, V.S., kand. ekon. nauk, red.;
BAZHANOVA, S., red.

[Specialization and cooperation in the industry of the Latvian
S.S.R.] Spetsializatsiia i kooperirovanie v promyshlennosti
Latviiskoi SSR. Riga, Izd-vo AN Latv. SSR, 1963. 79 p.
(EIRA 17:7)

NIKOLAYEVA, Klavdiya Yelisseyevna. Prinimala uchastiye BEYLINA, G.D.,
starshiy laborant. DEYCH, V.S., kand.ekon.nauk, red.;
BAZHANOVA, S., red.; PILADZE, Ye., tekhn.red.

[Practicing economy in using materials in enterprises of the
metalworking industry of the Latvian S.S.R.] Rezhim ekonomii
v ispol'zovanii materialov na predpriyatiyakh metalloobrabat-
yvayushchei promyshlennosti Latviiskoi SSR. Pod red. V.S.
Deicha. Riga, Izd-vo Akad.nauk Latviiskoi SSR, 1960. 148 p.
(MIRA 15:5)

1. Institut ekonomiki AN Latviyskoy SSR (for Beylina).
(Latvia--Metal industries)

L 54008-65 ENT(1)/EPF(c)/I/EPA(w)-2/EWA(m)-2 Pab-10/Pr-4 IJP(c)

ACCESSION NR: AP5013379

UR/0207/65/000/002/0094/0096

AUTHORS: Baylina, G. M. (Moscow); Pavlov, S. I. (Moscow); Rakhovskiy, V. I. (Moscow); Sorokaletov, O. D.

TITLE: Measuring ionization function of metal atoms by electron impact

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1965, 94-96

TOPIC TAGS: electron impact, ionization, electron beam, atomic beam, ionization cross section/ U1 2 amplifier, ENO 1(S 1 4) oscillograph, MA 20 balance

ABSTRACT: A method is described for measuring the absolute ionization cross section of low vapor pressure metal atoms by electron impact. The apparatus used for this experiment is shown in Fig. 1 on the Enclosure where 1- neutral atom source, 2- atomic beam chopper, 3- electron beam, 4- neutral atom collector, 5- ion collector, 6- thermopile, 7- cooled collector for neutral atoms, 8- LM-2. The metal used was lead. An electrostatic selector was employed to make the electron beam monoenergetic. This was done successfully to within 0.35 ev electron energy. The ion current was measured by an electrometric amplifier U1-2 with an error of less than 8%. The ionization measurements were carried out from the threshold level up to 150 ev with a maximum ionization cross section of

Card 1/3

L 54008-65

ACCESSION NR: AP5013379

$8 \times 10^{-16} \text{ cm}^2$ at 55 ev. The ionization cross section was determined from the expression $Q = I_b \cdot m \cdot t / I_M$ where b is the atom beam width at the point of intersection with the electron beam, t is the evaporation time and m is the atomic mass. A special effort was made to measure the neutral atom concentration accurately, condensing them on a collector cooled by liquid nitrogen. "The authors express their deep gratitude to V. L. Granovskiy (deceased) for his help and advice. Thanks are also given to Z. I. Sinitsina and A. A. Mal'kov for preparing the apparatus." Orig. art. has: 3 figures and 1 equation.

ASSOCIATION: none

SUBMITTED: 29Oct64

ENCL: 01

SUB CODE: NP, MM

NO REF SOV: 003

OTHER: 008

Card 2/3

L 54008-65

ACCESSION NR: AP5013379

ENCLOSURE: 01

0

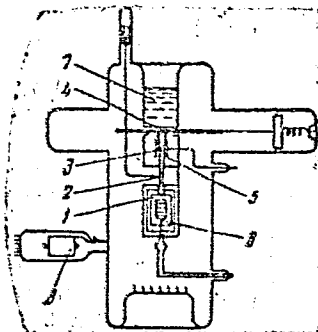


Fig. 1

gac
Card 3/3

KAYSER, L.A., inzhener; ZHURIN, V.D., professor, redakter; BEYLINA, I.A.,
redakter; TOKER, A.M., tekhnicheskii redakter.

[Factory production of assembled reinforced concrete slabs for hydrau-
lic installations] Zavodskoe izgotovlenie sbernykh zhelezobetonnykh
obolochek gidrotekhnicheskikh sooruzhenii. Moskva, Gos. izd-vo lit-ry
po stroit. i arkhitekture, 1954. 49 p. (MIRA 8:5)
(Concrete slabs) (Hydroelectric power plants)

ХАРПОВ, И.М., кандидат технических наук; КОСТЯКОВ, А.Н., профессор,
научный редактор; БЕЙЛИНА, И.А., редактор; СМОЛ'ЯКОВА, М.В.,
технический редактор.

[Irrigation and water supply] Oroshenie i obvodnenie. Moskva, Gos.
izd-vo lit-ry po stroit. i arkhitekture, 1954. 70 p. (MIRA 8:2)
(Irrigation) (Water supply)

KRICHMAR, S.I.; BEYLINA, L.I.

Use of a thermal conductivity chromatographic analyzer employing
combustion of the components to CO_2 . Zav.lab 26 no.10:1171-1172
'60. (MIRA 13:10)

1. Dneprodzerzhinskiy filial Gosudarstvennogo nauchno-issledovatel'-
skogo i proyektnogo instituta azotnoy promyshlennosti i produktov
organicheskogo sinteza.

(Chromatographic analysis)

S/149/62/000/003/008/011
A006/A101

AUTHORS: Beylina, L. V., Kislyakov, I. P.

TITLE: Investigating the wettability and impregnability of titanium and zirconium nitride briquets with molten cobalt and nickel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, no. 3, 1962, 129 - 134

TEXT: To complete data on the preparation and properties of nitride-base alloys, the authors studied the preparation of Ti and Zr-nitride powders and the identification of their composition; the pressing and sintering of porous briquets; the wettability of nitrides with molten nickel and cobalt and the impregnability of porous briquets with these materials. The nitrides were obtained from standard grade Ti and Zr metals or oxides. Nitriding of the metals was carried out in two stages with slow temperature rise to 1,100 and 1,150°C. Nitriding of oxides was performed in 3 stages at 1,600°C. The composition and parameters of the crystal lattice of nitrides and the nitride grain size were determined. Briquets were pressed in a steel mold from Ti and Zr-nitride powders, mixed with a 5% rubber solution in benzene. The briquets were sintered in a vacuum furnace

Card 1/3

S/149/62/000/003/008/011
A006/A101

Investigating the...

with a molybdenum heater, at 500 - 600°C for 45 minutes and at 1,400 - 1,450°C for 60 minutes. Impregnability and wettability of the briquets with molten nickel and cobalt was tested in the same furnace. The Co powder contained in %: 99.5 Co; 0.22 Ni; 0.10 O; 0.01 C; 0.06 Fe; 0.04 Si; 0.07 aq. The Ni powder was composed (in %) of: 99.56 Ni; 0.07 Co; 0.10 O; 0.01 C; 0.056 Fe; 0.04 Si; 0.016 C; 0.14 aq. Average values of wetting angles were determined. The tests yielded the following results: In wetting Ti-nitride with molten Co and Ni the wetting angles are in both cases below 90°. The possibility of saturating porous briquets, pressed from Ti-nitride powder, with molten metals, depends upon the purity and the granulometric composition of the nitride powder. Ti-nitride obtained by nitriding high-purity Ti metal can be sufficiently well impregnated with molten Co and Ni. Ti-nitride obtained by nitriding Ti-oxide in the presence of carbon (black) is wetted by the metal but not impregnated. This is explained by contamination with free carbon and its fine-grained nature. Zr-nitride obtained by nitriding Zr-metal powder is wetted with molten Co and Ni but not impregnated, this is probably due to the aforementioned causes and to the presence of residual oxygen, preserved on account of incomplete nitriding. It is assumed that the pseudo-binary Ti nitride - Ni and Ti nitride - Co sections show an eutectic nature,

Card 2/3

Investigating the...

S/149/62/000/003/008/011
A006/A101

with limited solubility of nitrides in cobalt or nickel in solid or liquid states.
There are 5 tables, and 2 figures.

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov (Krasnoyarsk Institute of
Non-Ferrous Metals) Kafedra metallurgii redkikh metallov (Department
of Rare Metal Metallurgy)

SUBMITTED: June 19, 1961

Card 3/3

BEYLINA, L. V.
AID Nr. 978-1

28 May

WETTING OF WC AND TiC BY MOLTEN Cu AND Cu-Ni ALLOYS (USSR)

Kislyakov, I. P., L. V. Beylina, and A. N. Kuzin. Izvestiya vysshikh uchebnykh zavedeniy. Tsvetnaya metallurgiya, no. 1, 1963, 117-120.

S/149/63/000/001/005/008

The Moscow Institute of Fine Chemical Technology has studied the wetting of solid WC and TiC by molten Cu, Cu-Ni alloys (with up to 30% Ni), Ni, and Co at 1080 to 1250°C in a pure Ar atmosphere. It was found that WC is readily wet by both Cu and Cu-Ni alloys. The contact angle θ in these systems is less than 90°, even at temperatures only 10-20°C above the melting point of the lowest-melting component. The θ decreases with increasing exposure time at a constant temperature or with increasing temperature. The temperature of complete wetting ($\theta = 0$) was found to be 1220-1250°C for Cu, and 1200-1220°C for the Cu-Ni alloys. The Cu-Ni alloys wet WC at a lower temperature, and more rapidly at the same temperature, than Cu; the higher the Ni content, the more rapid the wetting. No wetting of TiC by

Card 1/2

AID Nr. 978-1 28 May

WETTING OF WC AND TiC [Cont'd]

S/149/63/000/001/005/008

Cu or Cu-Ni alloys was observed at temperatures up to 1250°C and exposure time up to 2 hrs. It is believed, however, that a higher purity of TiC or increased exposure time would facilitate wetting. Complete wetting of TiC with Ni or Co takes place at temperatures 20 and 30°C higher than the melting temperature of Ni and Co, respectively. Melting at lower than the melting temperatures of pure Ni and Co, observed at the Ni-TiC and Co-TiC interfaces, is associated with the eutectic nature of the pseudobinary TiC-Ni and TiC-Co systems. The qualitative effect of the exposure time and temperature on the wetting of TiC by Ni and Co is similar to that in the wetting of WC by Cu and Cu-Ni alloys. [MS]

Card 2/2

BEYLINA, S.B. (Kiyev)

Diagnostic significance of the fourth intercostal lead. Vrach.
delo no.12:1319 D '56. (MIRA 12:10)

1. Elektrokardiograficheskiy kabinet (zav. - S.B.Beylina)
Gorodskoy klinicheskoy bol'nitsy Molotovskogo rayona.
(ELECTROCARDIOGRAPHY)

BEYLINA, TS. O.

BEYLINA, TS. O., inzhener; BLAGORADEZHDIN, V.Ye., inzhener; BOGUSLAVSKIY, P.Ye., kandidat tekhnicheskikh nauk; VORONKOV, I.M., professor, GITINA, L.Ya., inzhener; GROMAN, M.B., inzhener; GOROKHOV, N.V., doktor tekhnicheskikh nauk [deceased]; DENISYUK, I.N., kandidat tekhnicheskikh nauk; DOVZHIK, S.A., kandidat tekhnicheskikh nauk; DUKEL'SKIY, M.P., professor, doktor khimicheskikh nauk [deceased]; DYKHOVICHNYY, A.I., professor; ZHITKOV, D.G., professor, doktor tekhnicheskikh nauk; KOZLOVSKIY, N.S., inzhener; LAKHTIN, Yu.M., doktor tekhnicheskikh nauk; LEVENSON, L.B., professor, doktor tekhnicheskikh nauk [deceased]; LEVIN, B.Z., inzhener; LIPKAN, V.F., inzhener; MARTYNOV, M.V., kandidat tekhnicheskikh nauk; MOLEVA, T.I., inzhener; NOVIKOV, F.S., kandidat tekhnicheskikh nauk; OSETSKIY, V.M., kandidat tekhnicheskikh nauk; OSTROUMOV, G.A.; PONOMARENKO, Yu.F., kandidat tekhnicheskikh nauk; RAKOVSKIY, V.S., kandidat tekhnicheskikh nauk; REGIRER, Z.L., inzhener; SOKOLOV, A.N., inzhener; SOSUNOV, G.I., kandidat tekhnicheskikh nauk; STEPANOV, V.N., professor; SHEMAKHANOV, M.M., kandidat tekhnicheskikh nauk; EL'KIND, I.A., inzhener; YANUSHEVICH, L.V., kandidat tekhnicheskikh nauk; BOKSHITSKIY, Ya.M., inzhener, redaktor; BULATOV, S.B., inzhener, redaktor; GASHINSKIY, A.G., inzhener, redaktor; GRIGOR'YEV, V.S., inzhener, redaktor; YEGURNOV, G.P., kandidat tekhnicheskikh nauk, redaktor; ZHARKOV, D.V., dotsent, redaktor; ZAKHAROV, Yu.G., kandidat tekhnicheskikh nauk, redaktor; KAMINSKIY, V.S., kandidat tekhnicheskikh nauk, redaktor; KOMARKOV, Ye.F., professor, redaktor; KOSTYLEV, B.N., inzhener, redaktor; POVAROV, L.S., kandidat tekhnicheskikh nauk, redaktor; ULINICH, F.R., redaktor; KLORIK'YAN, S.Kh., otvetstvennyy redaktor; GLADILIN, L.V., redaktor;

(Continued on next card)

BEYLINA, TS.O. --- (continued) Card 2.

RUPPENEXT, K.V., redaktor; TERPIGOREV, A.M., glavnyy redaktor;
BARABANOV, F.A., redaktor; BARANOV, A.I., redaktor; BUCHNEV, V.K.,
redaktor; GRAFOV, L.Ye., redaktor; DOKUKIN, A.V., redaktor; ZADEMID-
KO, A.N., redaktor; ZASYAD'KO, A.F., redaktor; KRASNIKOVSKIY, G.V.
redaktor; LETOV, N.A., redaktor; DISHIN, G.L., redaktor; MAN'KOV-
SKIY, G.I., redaktor; MEL'NIKOV, N.V., redaktor; ONIKA, D.G.,
redaktor; OSTROVSKIY, S.B., redaktor; POKROVSKIY, N.M., redaktor;
POLSTYANOV, G.N., redaktor; SKOCHINSKIY, A.A., redaktor; SONIN,
S.D., redaktor; SPIVAKOVSKIY, A.O., redaktor; STANCHENKO, I.K.,
redaktor; SUDOPLATOV, A.P., redaktor; TOPCHIEV, A.V., redaktor;
TROYANSKIY, S.V., redaktor; SHEVYAKOV, L.D., redaktor; BYKHOV-
SKAYA, S.N., redaktor izdatel'stva; ZAZUL'SKAYA, V.F., tekhnicheskiy
redaktor; PROZOROVSKAYA, V.L., tekhnicheskii redaktor.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheski
spravochnik. Glav.red. A.M. Terpigorev. Chleny glav.red. F.A. Bara-
banov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po ugol'noi
promyshl. Vol.1. [General engineering] Obshchie inzhenernye
svedeniia. Redkollegiia tozha S.Kh.Klorik'ian i dr. 1957. 760 p.
(Mining engineering) (MLRA 10:10)

TORPANOVA, G.A.; Prinsipali uchastiye: BEYLINA, TS.O., inzh.; GUSEV, D.K.,
inzh.

Bessemer manganese steel with zirconium. Sbor.trud.TSNIICHM
no.27:26-28 '62. (MIRA 15:8)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy
institut ugol'nogo mashinostroyeniya.
(Manganese steel--Metallurgy)

NEVZOROVA, T.A., dotsent; FEDOROVSKIY, G.N., kand. med. nauk; BEYLINA, V.B.

Clinical and some electroencephalographic data on the effect of
minimal doses of aminazine. Trudy 1-go MMI 25:32-37 '63.

1. Kafedra psikhiatrii, 1-y Moskovskiy ordena Lenina meditsinskiy
institut imeni I.M.Sechenova (zav.-kafedroy prof. V.M.Banshchikov).

LJEL'CHUK, Vitaliy Semenovich, kand.istor.nauk; BNYLINA, Yevgeniya
Eliberovna; YEREMINA, Yu.P., red.; NAZAROVA, A.S., tekhn.red.

[Where communism begins; the CPSU is the organizer and leader
of the people's movement for communist labor] Tam, gde nachin-
naetsia kommunizm; KPSS - organizator i rukovoditel' vsenarodnogo
dvizhenia za kommunisticheskiy trud. Moskva, Izd-vo "Znanie,"
1961. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniю poli-
ticheskikh i nauchnykh znaniy. Ser.1, Istoriia, no.23).
(MIRA 14:12)

(Labor and laboring classes)

RYBITSKIY, N.A.; URBAN, V.I.; MEL'NIKOV, P.Ya.; DOMBROVSKIY, V.P.;
BEYLINSON, A.O.; LIKHONOS, F.D., doktor sel'skokhoz.nauk, red.;
AUERBAKH, L.K., tekhn.red.

[Everything for the orchard and garden; catalog-handbook on
fruit and vegetable culture, orchard and garden equipment,
fertilizers and insecticides] Vse dlia sada i ogoroda; katalog-
spravochnik po sadovodstvu i ogorodnichestvu, sadovo-ogorodnomu
inventariu, udobreniam i iadokhimikatam. Leningrad, Izd.Leningr.
kombinata Rostorgreklama, 1960. 166 p. (MIRA 13:6)

1. Leningradskaya meshoblastnaya optovaya baza Roskhozorg Mi-
nisterstva trgovli RSFSR (for Mel'nikov, Dombrovskiy, Beylinson).
(Gardening)